

Product Evaluation Report

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Manufacturer

Natural Light Energy Systems, dba Kennedy Skylights
5294 Tower Way
Sanford, FL 32773

Product Series, Model and/or Description

Curb Mounted and Self-Flashing Polycarbonate Skylights, Non-Impact and Impact

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code

Compliance Methods: Product Approval Rule 61G20-3.005(1)(a) – Certification Mark or Listing

Product Installation Instructions:

- KENN0006, Rev. C, dated 10/16/23, signed and sealed by Robert J. Amoruso, Natural Light Energy Systems, dba Kennedy Skylights "HCMA" Curb Mounted Polycarbonate Skylight – LMI, Installation Anchorage Details
- KENN0007, Rev. C, dated 10/16/23, signed and sealed by Robert J. Amoruso, Natural Light Energy Systems, dba Kennedy Skylights "CM" Curb Mounted Polycarbonate Skylight – NI, Installation Anchorage Details
- KENN0008, Rev. C, dated 10/16/23, signed and sealed by Robert J. Amoruso, Natural Light Energy Systems, dba Kennedy Skylights "SF" Self-Flashing Polycarbonate Skylight - NI, Installation Anchorage Details

Engineering Analysis & Product Evaluation: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage and product verification has been substantiated by calculation (PTC Report. No. 2058-1, 2058-2 and 2058-3) prepared, signed and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Design Pressure Evaluation/Product Evaluation
 - Drawing No. KENN0006
 - Product Name/Series: "HCMA" Curb Mounted Polycarbonate Skylight – LMI
 - High Velocity Hurricane Zone (HVHZ): YES
 - Outside High Velocity Hurricane Zone (HVHZ): YES
 - Impact Resistant: YES
 - Impact resistant glazing using Palram Americas, Inc., Corrugated and Flat Polycarbonate Panels. Current Palram Americas NOA can be found [here](#).
 - National Certified Test Laboratory, Inc. Test Report No.
 - NCTL-210-3992-01
 - Design Pressure
 - +/-80 psf
 - Margin of Safety = 3 applied for positive load and 2 for negative load to Structural Design Pressure per Sections 1504 and 1523 of the current edition of the FBC and MD FAQ (<http://www.miamidade.gov/building/products/skylights.asp>).
 - Performance and Testing Standards
 - Test Report No. NCTL-210-3992-01
 - TAS202-94
 - TAS201-94
 - TAS203-94
 - Drawing No. KENN0007
 - Product Name/Series: "CM" Curb Mounted Polycarbonate Skylight – NI
 - High Velocity Hurricane Zone (HVHZ): NO
 - Outside High Velocity Hurricane Zone (HVHZ): YES
 - Impact Resistant: NO



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- Glazed using Palram Americas, Inc., Corrugated and Flat Polycarbonate Panels. Current Palram Americas NOA can be found [here](#).
- National Certified Test Laboratory, Inc. Test Report No.
 - NCTL-210-3042-2,3
- Design Pressure
 - +/-60 psf
 - Margin of Safety = 2 applied to Structural Design Pressure per Section 1504 of the current edition of the FBC.
- Performance and Testing Standards
 - Test Report No. NCTL-210-3042-2,3
 - AAMA/WDMA 1600/I.S.7-00, Voluntary Specification for Skylights
- Drawing No. KENN0008
 - Product Name/Series: "SF" Self-Flashing Polycarbonate Skylight - NI
 - High Velocity Hurricane Zone (HVHZ): NO
 - Outside High Velocity Hurricane Zone (HVHZ): YES
 - Impact Resistant: NO
 - Glazed using Palram Americas, Inc., Corrugated and Flat Polycarbonate Panels. Current Palram Americas NOA can be found [here](#).
 - National Certified Test Laboratory, Inc. Test Report No.
 - NCTL-210-3042-1
 - Design Pressure
 - +87.5/-70 psf based on maximum structural test pressure/Margin of Safety.
 - +85/-70 psf based on AAMA/WDMA 1600/I.S.7-00, certification rating.
 - Margin of Safety = 2 applied to Structural Design Pressure per Section 1504 of the current edition of the FBC.
 - Performance and Testing Standards
 - NCTL-210-3042-1
 - AAMA/WDMA 1600/I.S.7-00, Voluntary Specification for Skylights

Performance Testing Standards:

- TAS 201-94 - Impact Test Procedures
- TAS 202-94 - Criteria for Testing Impact; Non-impact Resistant Building Envelope Components Using Uniform Static Air Pressure
- TAS 203-94 - Criteria for Testing Products Subject to Cyclic Wind Pressure Loading
- AAMA/WDMA 1600/I.S.7-00, Voluntary Specification for Skylights

Product Testing:

- NCTL-210-3992-01, dated 1/7/15, signed and sealed by Gerald J. Ferrara, P.E., testing to TAS 201/202/203 for "HCMA" Curb Mounted Polycarbonate Skylight
- NCTL-210-3042-2,3, dated 8/20/04, signed and sealed by Gerald J. Ferrara, P.E., testing to AAMA/WDMA 1600/I.S.7-00 for "CM" Curb Mounted Polycarbonate Skylight
- NCTL-210-3042-1, dated 8/20/04, signed and sealed by Gerald J. Ferrara, P.E., testing to AAMA/WDMA 1600/I.S.7-00 for "SF" Curb Mounted Self-Flashing Polycarbonate Skylight

Material Certifications/Component Approvals:

- Glazed using Palram Americas, Inc., Corrugated and Flat Polycarbonate Panels. Current Palram Americas NOA can be found [here](#).



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Limitations & Conditions of Use:

- "HCMA" Curb Mounted Polycarbonate Skylight shown on KENN0006
 - This product has been evaluated for use inside the HVHZ (High Velocity Hurricane Zone)
 - This product is Impact Resistance. Therefore, a protective impact-rated device is not required.
- "CM" Curb Mounted Polycarbonate Skylight shown on KENN0007
 - This product has not been evaluated for use inside the HVHZ (High Velocity Hurricane Zone)
 - This product is not Impact Resistance. Therefore, a protective impact-rated device is required when used in a wind-borne debris region.
- "SF" Curb Mounted Self-Flashing Polycarbonate Skylight shown on KENN0008
 - This product has not been evaluated for use inside the HVHZ (High Velocity Hurricane Zone)
 - This product is not Impact Resistance. Therefore, a protective impact-rated device is required when used in a wind-borne debris region.
- Refer to Product Installation Instructions noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report. PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.

Evaluated by:
Robert J. Amoruso, P.E.
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